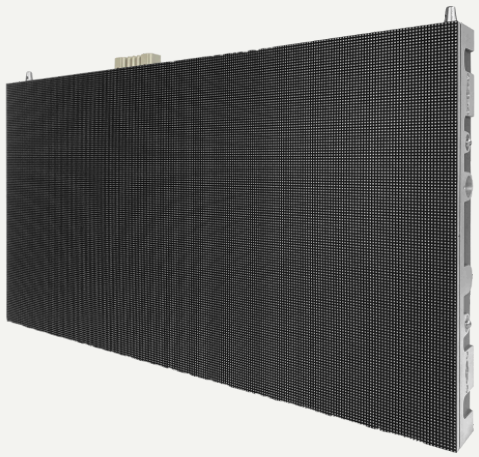
0.9 mm Indoor FinePitch LED Module

Sharp LD-FE093



Engineered for efficiency, without compromise

For bezel-free visual impact and long-lasting performance, the Sharp LD-FE3 Series sets a new benchmark in energy-efficient dvLED display technology. Built on NEC's legacy of engineering excellence, the third-generation FE Series features advanced Flip-Chip technology and industrial-grade components to deliver vibrant, high-contrast imagery while reducing energy consumption and heat output by up to 60%. The result is a substantial reduction in operating costs and HVAC demands, without compromising visual precision or performance.

The proven mechanical all-metal cabinet design ensures precise module alignment, long-term structural stability, and fire safety compliance. Configurable to any shape or size, its modular architecture supports endless creative potential, while front-serviceable modules enable hassle-free maintenance. With fine pixel pitch performance, the FE3 Series modules create a seamless detail-rich viewing experience, ideal for command and control, broadcast, signage, and conferencing. Its cost-saving efficiency also makes it a smart choice for education and leisure environments.

Benefits

- **Significantly lower energy usage** – Highly efficient Flip-Chip IMD technology reduces power consumption by up to 60% compared to standard SMD, at the same brightness.
- **Uncompromised image quality** – An exceptional contrast ratio, ultra-deep black levels, fine pixel pitch, and wide viewing angles ensure vivid clarity and accurate colour reproduction even in bright ambient light conditions.
- **Minimised interference** – low electromagnetic emissions allowing for EMC Class-B certified modules.
- **Scalable versatility** – Customisable to any shape or size, the bezel-free modules fit the space available enabling endless creative possibilities and seamless large-surface installations.
- **Slim design** – with a flush rear profile, LED modules can be integrated very close to the wall with minimal gap necessary due to very low heat emission.

Specifications

Product Information

Product Name
Sharp LD-FE093

Product Group
0.9 mm Indoor FinePitch LED Module

Order Code
81000685

Display

Pixel Configuration
4-in-1 IMD (Black)

LED type
FlipChip IMD (1616)

Pixel Pitch [mm]
0.9

Brightness (max.) [cd/m²]
600

Lifetime
100000 hrs (50% brightness)

Contrast Ratio (typ.)
4000:1

Viewing Angle [°]
170 horizontal / 170 vertical

Dimming Capability
256 levels

Colour Processing
16 bit

Colours [Trill.]
281

LED Driving Method
1/46 dynamic scan

Frame Rate [Hz]
50/60

Refresh Rate [Hz]
≤ 3840

Colour Temperature [K]
3000 - 9500

Screen Resolution

Resolution per m²
1108033

Number of Pixel per module [dot]
640 x 360

Number of Pixel per card [dot]
160 x 180

Electrical

Power Consumption typ. [W]
96 per m² (normal use)

Power Consumption max. [W]
168 per m²

Power Consumption typ. [BTU]
328 per m² (normal use)

Power Consumption max. [BTU]
574 per m²

Environmental Conditions

Operating Temperature [°C]
-10 to 40

Operating Humidity [%]
10 to 80

Mechanical

Dimensions (W x H x D) [mm] per module
608 x 342 x 49

Weight [kg]
8.8

Additional Features

Special Characteristics
Flush Surface SMD Design; Single Data Receiving Cards; Single Power Supplies

Manufacturer
SHARP

Serviceability
Front Service

IP Level
IP20

Certifications
CE; EMC Class B; ETL; FCC Class A; RoHS

Warranty
3 years

Material
Aluminum Cabinet

FCC Class A

CE

RoHS